

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

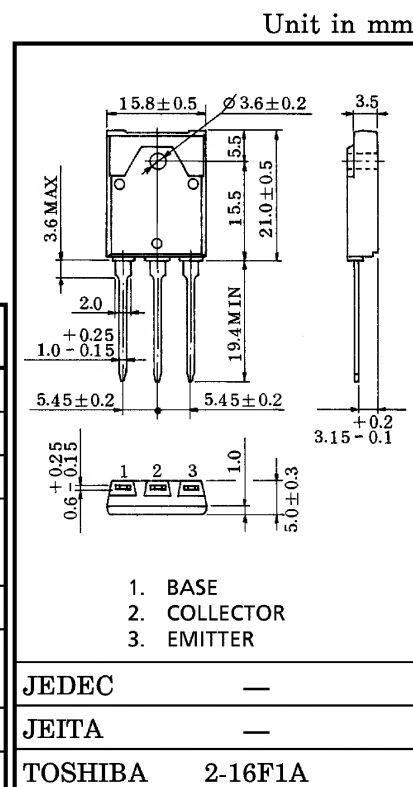
## 2SA1803

POWER AMPLIFIER APPLICATIONS

- Complementary to 2SC4688
- Recommend for 40W High Fidelity Audio Frequency Amplifier output Stage.

MAXIMUM RATINGS ( $T_c = 25^\circ\text{C}$ )

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		$V_{CB0}$	-80	V
Collector-Emitter Voltage		$V_{CEO}$	-80	V
Emitter-Base Voltage		$V_{EBO}$	-5	V
Collector Current	DC	$I_C$	-6	A
	Pulse	$I_{CP}$	-12	
Base Current		$I_B$	-0.6	A
Collector Power Dissipation ( $T_c = 25^\circ\text{C}$ )		$P_C$	55	W
Junction Temperature		$T_j$	150	$^\circ\text{C}$
Storage Temperature Range		$T_{stg}$	-55~150	$^\circ\text{C}$

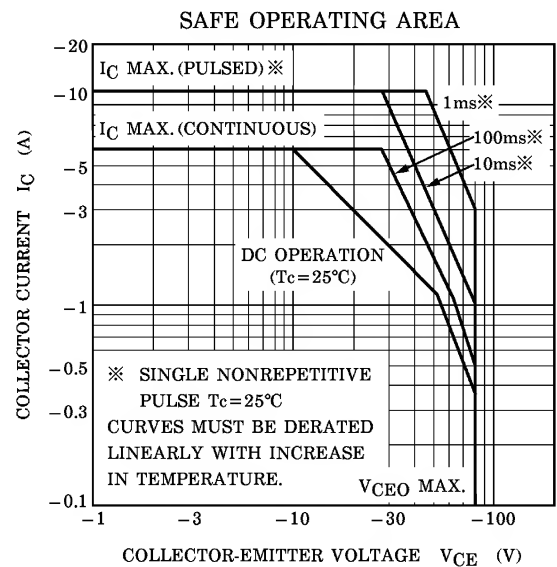
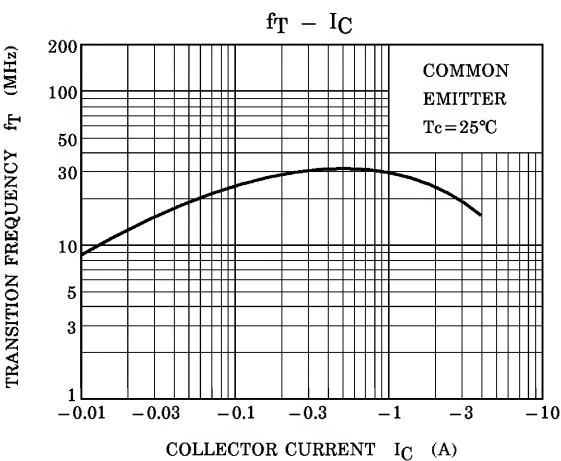
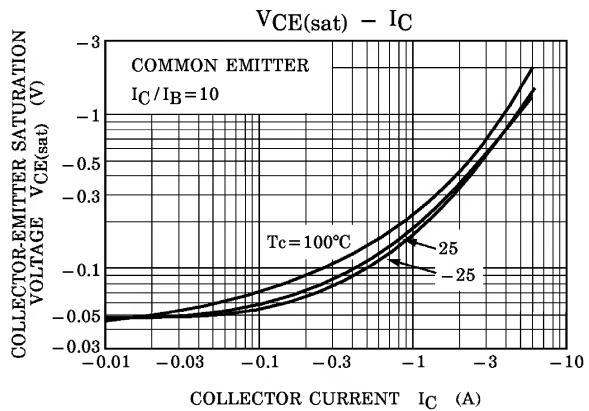
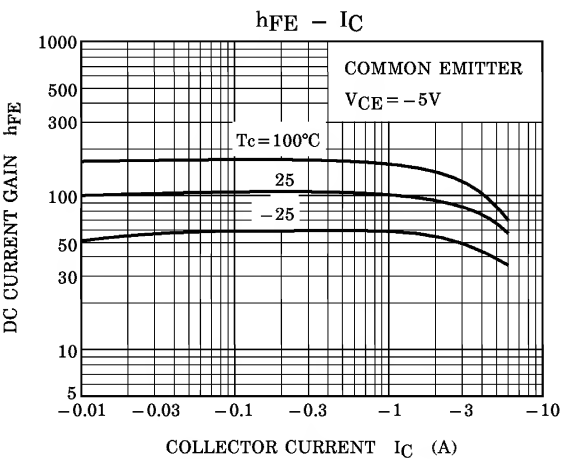
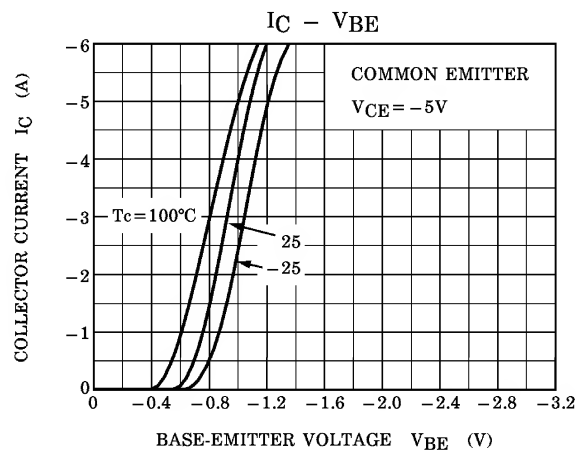
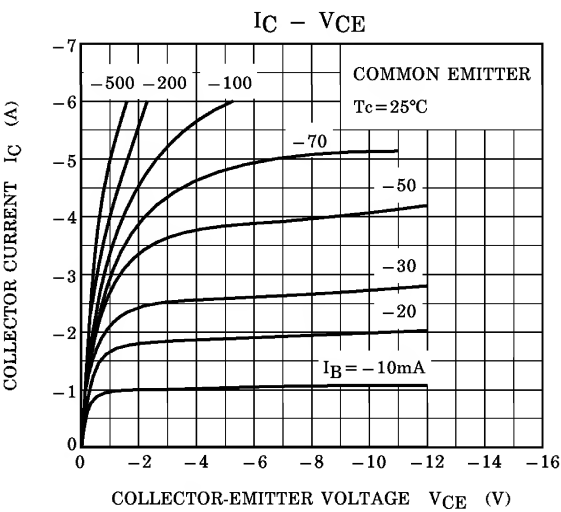


Weight : 5.8g (Typ.)

ELECTRICAL CHARACTERISTICS ( $T_c = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -80\text{V}, I_E = 0$	—	—	-5.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-5.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B = 0$	-80	—	—	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55	—	160	
	$h_{FE(2)}$	$V_{CE} = -5\text{V}, I_C = -3\text{A}$	35	80	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -5\text{A}, I_B = -0.5\text{A}$	—	-1.0	-2.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -5\text{V}, I_C = -3\text{A}$	—	-0.95	-1.5	V
Transition Frequency	$f_T$	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	—	30	—	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	—	290	—	pF

(Note) :  $h_{FE(1)}$  Classification R : 55~110, O : 80~160



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